

Amendments to the Specification

Please replace paragraph [0007] on page 3 with:

Because each tone has its own equalizer, each filter can be optimally designed using minimum mean squared estimation (MMSE) method which is known in the art. ~~This is described in the reference book entitled "Adaptive Filter Theory, 2nd Edition" by author Simon Haykin and published by Prentice Hall, Englewood Cliffs, N.J. 07632.~~ The DMT receiver based on per tone equalizer has the potential to achieve optimum performance. Simulation results show that it outperforms almost all the time equalization (TEQ) design algorithms.